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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/646,349	01/03/2001	Hironao Okayama	OKAYAMA2	9117

1444 7590 06/17/2003

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EXAMINER

YUN, JURIE

ART UNIT PAPER NUMBER

2882

DATE MAILED: 06/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

**Application No.**

09/646,349

**Applicant(s)**

OKAYAMA ET AL.

**Examiner**

Jurie Yun

**Art Unit**

2882

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on 02 February 2001.
- 2a)  This action is **FINAL**.
- 2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4)  Claim(s) 1-10 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_\_ is/are allowed.
- 6)  Claim(s) 1-10 is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.
  - Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11)  The proposed drawing correction filed on \_\_\_\_\_ is: a)  approved b)  disapproved by the Examiner.
  - If approved, corrected drawings are required in reply to this Office action.
- 12)  The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All b)  Some \* c)  None of:
    - 1.  Certified copies of the priority documents have been received.
    - 2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    - 3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* See the attached detailed Office action for a list of the certified copies not received.
- 14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - a)  The translation of the foreign language provisional application has been received.
- 15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1)  Notice of References Cited (PTO-892)
- 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4)  Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5)  Notice of Informal Patent Application (PTO-152)
- 6)  Other:

**DETAILED ACTION**

***Claim Objections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-6 are objected to under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a color picture tube having an aperture grille made of a low carbon steel sheet containing 9 to 30 wt% of Ni and/or containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co, does not reasonably provide enablement for an element such as carbon steel silverware or cooking utensils, made of a low carbon steel sheet containing 9 to 30 wt% of Ni and/or containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. The limitation "for an aperture grille for use in a color picture tube" is intended use. Accordingly, the recitation is not given any patentable weight. The subject matter claimed is, "A material made of a low carbon steel sheet containing 9 to 30 wt% of Ni and/or containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co," which can be used in infinite elements not particular to CRT elements.

***Specification***

3. The abstract of the disclosure is objected to because it contains more than 150 words. Correction is required. See MPEP § 608.01(b).

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Tadashi et al. (JP 06-073452).

6. With respect to claims 1, 2, and 7-10, Tadashi et al. disclose a material for an aperture grille for use in a color picture tube made of a low carbon steel sheet containing 9 to 30 wt% of Ni and/or containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co (Operation, paragraph 12). Tadashi et al. also disclose an aperture grille for use in a color picture tube which is made of the above materials, and a color picture tube incorporating an aperture grille for use in a color picture tube which is made of the above materials (Detailed Description, paragraph 1).

7. With respect to claims 3 and 4, Tadashi et al. disclose the steps of cold-rolling a low carbon steel sheet containing 9 to 30 wt% of Ni and/or containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co and annealing same at a temperature of 400 to 500 degrees Celsius (Detailed Description, paragraph 8).

8. With respect to claims 5 and 6, Tadashi et al. disclose the steps of cold-rolling a low carbon steel sheet containing 9 to 30 wt% of Ni and/or containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co, subjecting same to process-annealing at a temperature of 500

to 800 degrees Celsius and another cold-rolling, and annealing same at a temperature of 400 to 500 degrees Celsius (claim 3).

**Conclusion**

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jurie Yun whose telephone number is 703 308-3535. The examiner can normally be reached on Monday-Friday 8:30-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 703 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308-7722 for regular communications and 703 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-0956.

Jurie Yun  
June 4, 2003



DAVID V. BRUCE  
PRIMARY EXAMINER